



Specification Amendments

Please add the paragraph to the specification before the paragraph that begins on page 7, line 15, with the paragraph, as follows:

In another embodiment, as shown in FIG. 4, a data storage array of multiple thin film layers adapted to form a plurality of data storage cell diodes can be formed. The data storage array can comprise a silicon substrate 210. The data storage array can further include a first diode layer 204 comprising a material fabricated over the silicon substrate. The data storage array can also include a second diode layer 202 of phase-change material that can be fabricated on the first diode layer to form a diode junction 206 with the second diode layer. The phase-change material can contain copper, indium, selenium and gallium.